

# 856 Ship Notice/Manifest

Functional Group ID=**SH**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

## Notes:

**1. Organizations use this transaction set to transmit shipment manifest information of hazardous waste being transported for disposal.**

**Subordinate/related uses of the transaction set include:**

- a. Certify transfer/receipt of the waste to the generator and others as needed.**
- b. Notify state environmental agencies of failure to receive certification/confirmation.**
- c. Provide cradle-to-grave manifest audit trail information for disposal.**
- d. Provide a summary report of waste imported into the U.S.**

**2. Use a single occurrence of this transaction to transmit one or more line items on a single manifest or summary report.**

**3. This transaction set contains the data requirements to electronically transmit the Federal Uniform Hazardous Waste Manifest (UHWM) including continuation sheets.**

**4. Users may need to refer to the Shipment Container Conversion Table to cross reference X12 container codes to UHWM container types. This table can be found on the National Institute of Standards and Technology (NIST) World Wide Web Site.**

## Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BSN	Beginning Segment for Ship Notice	M	1		
	040	DTM	Date/Time Reference	O	10		

## Detail:

## 856W - Ship Notice/Manifest (Hazardous Waste Manifest)

	<b>Pos. No.</b>	<b>Seg. ID</b>	<b>Name</b>	<b>Req. Des.</b>	<b>Max.Use</b>	<b>Loop Repeat</b>	<b>Notes and Comments</b>
			<b>LOOP ID - HL</b>			<b>200000</b>	
Must Use	010	HL	Hierarchical Level	M	1		c1
	020	LIN	Item Identification	O	1		
Not Used	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
Not Used	050	PRF	Purchase Order Reference	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
	070	PID	Product/Item Description	O	200		
	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
	110	TD1	Carrier Details (Quantity and Weight)	O	20		
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	130	TD3	Carrier Details (Equipment)	O	12		
	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	150	REF	Reference Identification	O	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
			<b>LOOP ID - LH1</b>			<b>100</b>	
	152	LH1	Hazardous Identification Information	O	1		
	153	LH2	Hazardous Classification Information	O	4		
	154	LH3	Hazardous Material Shipping Name	O	12		
	155	LFH	Freeform Hazardous Material Information	O	20		
	156	LEP	EPA Required Data	O	3		
Not Used	157	LH4	Canadian Dangerous Requirements	O	1		
Not Used	158	LHT	Transborder Hazardous Requirements	O	3		
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10		
Not Used	160	PER	Administrative Communications Contact	O	5		
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1		
			<b>LOOP ID - CLD</b>			<b>200</b>	
	170	CLD	Load Detail	O	1		
	180	REF	Reference Identification	O	200		
Not Used	185	DTP	Date or Time or Period	O	1		
Not Used	190	MAN	Marks and Numbers	O	>1		
	200	DTM	Date/Time Reference	O	10		
Not Used	210	FOB	F.O.B. Related Instructions	O	1		
Not Used	215	PAL	Pallet Information	O	1		
			<b>LOOP ID - N1</b>			<b>200</b>	
	220	N1	Name	O	1		
	230	N2	Additional Name Information	O	2		
	240	N3	Address Information	O	2		
	250	N4	Geographic Location	O	1		
	260	REF	Reference Identification	O	12		

## 856W - Ship Notice/Manifest (Hazardous Waste Manifest)

	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	>1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

### Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Not Used	010	CTT	Transaction Totals	O	1		n1
Must Use	020	SE	Transaction Set Trailer	M	1		

### Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

### Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			856 X12.10 Ship Notice/Manifest	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>A unique number assigned to this transaction set for control purposes. Usually assigned by the translation software. This is the same number that appears in SE02.</i>	

**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:** 1 If BSN07 is present, then BSN06 is required.  
**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.  
2 BSN04 is the time the shipment transaction set is created.  
3 BSN06 is limited to shipment related codes.  
**Comments:** 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	BSN01	353	Transaction Set Purpose Code	M ID 2/2
Code identifying purpose of transaction set				
		00	Original	
			<i>Use to indicate an original 856 transaction set.</i>	
		01	Cancellation	
		05	Replace	
			<i>Use to indicate that a change has been made to a previous transaction set. When used, all data, whether changed or not, must be retransmitted. When used, the retransmitted data will overwrite the information in the receiving database.</i>	
		07	Duplicate	
			<i>Use to indicate the re-transmission of an original 856 transaction set.</i>	
		18	Reissue	
			<i>Use to indicate a supplement to the Foreign Waste Shipment Summary. Use only in conjunction with 1/BSN06/020 code RP.</i>	
Must Use	BSN02	396	Shipment Identification	M AN 2/30
A unique control number assigned by the original shipper to identify a specific shipment				
			<i>Use to identify a unique manifest document number. This is the concatenation of the Generator's Environmental Protection Agency (EPA) ID number, followed by the manifest number.</i>	
			<i>For Foreign Waste Shipment Summaries cite the first reported manifest</i>	

			<i>in the group.</i>	
Must Use	BSN03	373	<b>Date</b>	<b>M DT 6/6</b>
			Date (YYMMDD)	
			<i>1. Use to indicate the transaction set creation date.</i>	
			<i>2. This date corresponds to the Universal Time Coordinate (UTC).</i>	
Must Use	BSN04	337	<b>Time</b>	<b>M TM 4/8</b>
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			<i>1. Express the originating organization's time in UTC.</i>	
			<i>2. Express time in a four-position (Hour Hour Minute Minute) format.</i>	
Not Used	BSN05	1005	<b>Hierarchical Structure Code</b>	<b>O ID 4/4</b>
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	
Must Use	BSN06	640	<b>Transaction Type Code</b>	<b>X ID 2/2</b>
			Code specifying the type of transaction	
			NQ	Disposal Shipment Confirmation
				A notification from a storage site advising the originator of a disposal release order of the nonpositive action taken on the order
				<i>Use to indicate a waste shipment from the generator to a treatment, storage and disposal facility (TSDF).</i>
			P1	Preliminary
				<i>Use to indicate a preliminary manifest created for review and concurrence.</i>
			RP	Reporting
				<i>Use to indicate a Foreign Waste Shipment Summary. Use only mandatory segments and data elements and those specifically noted as being used in a Foreign Waste Shipment Summary.</i>
			TH	Receipt Acknowledgment Advice
				<i>Use to indicate a certification of receipt to the generator by a TSDF or transporter.</i>
			TS	Transfer Statement
				<i>Use to indicate a manifest prepared by a TSDF when the waste is released/moved or due to a change in transportation mode/carrier manifest (e.g., from truck to ocean). This is not the original manifest from a generator.</i>

**BSN07      641      Status Reason Code      O      ID 3/3**

Code indicating the status reason

A95      Past Cutoff Time

*Use only in conjunction with BSN06 codes NQ or TS to indicate the generator is forwarding a manifest to a state agency when no receipt has been obtained from the receiving TSDF.*

**Segment:** **DTM** **Date/Time Reference**

**Position:** 040

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If either DTM06 or DTM07 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** *Must use in a Foreign Waste Shipment Summary to identify the time period of the report.*

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier		M ID 3/3
				Code specifying type of date or time, or both date and time	
			174	Month Ending	
				<i>Use to indicate the end date of the monthly reporting period for the Foreign Waste Shipment Summary.</i>	
Must Use	DTM02	373	Date		X DT 6/6
				Date (YYMMDD)	
Not Used	DTM03	337	Time		X TM 4/8
				Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	DTM04	623	Time Code		O ID 2/2
				Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
	DTM05	624	Century		O N0 2/2
				The first two characters in the designation of the year (CCYY)	
Not Used	DTM06	1250	Date Time Period Format Qualifier		X ID 2/3
				Code indicating the date format, time format, or date and time format	
Not Used	DTM07	1251	Date Time Period		X AN 1/35
				Expression of a date, a time, or range of dates, times or dates and times	



**Segment:** **HL** Hierarchical Level  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

- Comments:**
- 1** The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
  - 2** HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4** HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
  - 5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

- Notes:**
- 1. For manifests the transaction set hierarchical data structure is a single shipment handler information loop, followed by one or more line item detail loops, followed by any certification loop(s) as needed.**
  - 2. The single shipment handler loop iteration identifies the shipping and receiving organizations, transporter(s), and other associated organizations along with point of contact (POC) data for each organization.**
- Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one manifest line item. At least one line item iteration must exist for each manifest.**
- Each certification 2/HL/010 loop iteration provides certification detail including organization identification, certifying individual and PIN, and communications numbers.**
- One or more certification loop iterations must be used to report transfer/receipt of the waste as part of the EPA UHWM to the generator and state environmental organizations. They are not necessary when the transaction set is being used only to convey manifest data between automated systems.**

**3. For Foreign Waste Shipment Summaries, the transaction set hierarchical data structure is a single shipment handler loop, followed by one or more line item detail loops.**

**The single shipment handler loop iteration identifies the generating organization within the foreign country and the U.S. receiving organization.**

**Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one line item. At least one line item iteration must exist for each Foreign Waste Shipment Summary.**

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	HL01	628	<b>Hierarchical ID Number</b>	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
			<b><i>In the first 2/HL/010 loop iteration cite only the numeric 1. In each subsequent loop iteration increase incrementally by 1.</i></b>	
	HL02	734	<b>Hierarchical Parent ID Number</b>	O AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
			<b><i>1. Do not use in the 2/HL/010 shipment handler loop.</i></b>	
			<b><i>2. Cite the number 1 in all 2/HL/010 line item loops and certification loops.</i></b>	
Must Use	HL03	735	<b>Hierarchical Level Code</b>	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
		I	Item	
			<b><i>Use to identify each line item of waste and it's characteristics and quantities. Use a separate 2/HL/010 loop for each line item waste description detail.</i></b>	
		S	Shipment	
			<b><i>Use the shipment handler to identify ship-from and ship-to organizations and other information associated with the shipment as a whole. The shipment handler loop is always the first iteration of the 2/HL/010 loop and is to be used only once. It must be followed by one or more subordinate line item loops. Certification loop(s) may follow the line item loops in manifests as needed.</i></b>	

V

Address Information

The HL loop will identify entities associated with the shipment notice transaction

*Use in manifest to identify acceptance/transfer of the waste by an organization and an associated individual. Use a separate certification loop for each certifying organization.*

Not Used

HL04

736

**Hierarchical Child Code**

**O ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

<b>Segment:</b>	<b>LIN</b> Item Identification
<b>Position:</b>	020
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic item identification data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 LIN01 is the line item identification
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>
<b>Notes:</b>	<ol style="list-style-type: none"> <li>1. <i>Must use this 2/LIN/020 segment in 2/HL/010 manifest line item loops, to identify the waste shipped.</i></li> <li>2. <i>Do not use in Foreign Waste Shipment Summary.</i></li> </ol>

## Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
<b>Must Use</b>	<b>LIN01</b>	<b>350 Assigned Identification</b>	<b>O AN 1/20</b>
		Alphanumeric characters assigned for differentiation within a transaction set	
		<i>Use to identify the manifest line number.</i>	
<b>Must Use</b>	<b>LIN02</b>	<b>235 Product/Service ID Qualifier</b>	<b>M ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		<i>Must use at least one of the listed codes in LIN02-3. Use additional 235/234 pairs as needed to provide further identification.</i>	
		A3 Locally Assigned Control Number	

Item identifier is a locally assigned control number used to catalog and manage material

*Use to indicate a number or nomenclature assigned by the generator to identify the waste line item*

CO Chemical Abstract Service (CAS) Registry Number

*Use to indicate the CAS identification number.*

IN Buyer's Item Number

*Must use in Defense Reutilization and Marketing Service (DRMS) shipments to indicate the Hazardous Identification Number (HIN).*

TU Tested Material Identification Number

*Use to indicate the TSDF's profile number.*

<b>Must Use</b>	<b>LIN03</b>	<b>234</b>	<b>Product/Service ID</b>	<b>M</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
	<b>LIN04</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	<b>LIN05</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
	<b>LIN06</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	<b>LIN07</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
	<b>LIN08</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	<b>LIN09</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
<b>Not Used</b>	<b>LIN10</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
<b>Not Used</b>	<b>LIN11</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
<b>Not Used</b>	<b>LIN12</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
<b>Not Used</b>	<b>LIN13</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/40</b>
			Identifying number for a product or service		
<b>Not Used</b>	<b>LIN14</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in		

			Product/Service ID (234)		
Not Used	LIN15	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN16	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN17	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN18	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN19	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN20	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN21	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN22	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN23	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN24	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN25	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN26	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN27	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN28	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN29	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN30	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN31	234	Product/Service ID	X	AN 1/40

Identifying number for a product or service

<b>Segment:</b>	<b>PID</b> <b>Product/Item Description</b>
<b>Position:</b>	070
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	200
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID03 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<ol style="list-style-type: none"> <li>1. <i>Must use 2 occurrences of this 2/PID/070 segment in 2/HL/010 manifest line item loops. Use the first occurrence to identify whether the item is hazardous or non hazardous and the handling code. Use the second occurrence to indicate the physical state.</i></li> <li>2. <i>Also use additional iterations as needed in line item loops to indicate state waste codes.</i></li> <li>3. <i>Must use this PID segment in Foreign Waste Shipment Summary line item loops to identify Handling Codes (i.e., System Type Code or Treatment Codes) and State Waste Codes.</i></li> </ol>

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
		<i>Use as needed to provide additional descriptive information not available from code sources. Use in conjunction with PID02 codes PFA and STL</i>	



				<i>and PID05.</i>	
			S	Structured (From Industry Code List)	
				<i>Must use to indicate handling codes from industry code lists. Use in conjunction with PID02 codes HZ and NH and PID04.</i>	
<b>Must Use</b>	<b>PID02</b>	<b>750</b>	<b>Product/Process Characteristic Code</b> <b>O ID 2/3</b>		
			Code identifying the general class of a product or process characteristic		
			<i>Must use only one of codes HZ or NH.</i>		
			HZ	Hazardous Material	
				<i>Use with PID04 to indicate the handling code (treatment code).</i>	
			NH	Non-Hazardous Material	
				<i>Use with PID04 to indicate the handling code.</i>	
			PFA	Physical Form	
				<i>Use to indicate the physical state (liquid, solid, gas, sludge) in PID05.</i>	
			STL	State Controlled	
				<i>1. Use to indicate the applicable state waste codes(s). Use in conjunction with PID01 code F. Cite the U.S. Postal Service abbreviation for the applicable state followed by a dash and then the specific waste code, in PID05.</i>	
				<i>2. Use in Foreign Waste Summary Reports.</i>	
<b>Must Use</b>	<b>PID03</b>	<b>559</b>	<b>Agency Qualifier Code</b> <b>X ID 2/2</b>		
			Code identifying the agency assigning the code values		
			DO	United States Department of Transportation (DOT)	
			EP	United States Environmental Protection Agency (EPA)	
	<b>PID04</b>	<b>751</b>	<b>Product Description Code</b> <b>X AN 1/12</b>		
			A code from an industry code list which provides specific data about a product characteristic		
	<b>PID05</b>	<b>352</b>	<b>Description</b> <b>X AN 1/80</b>		
			A free-form description to clarify the related data elements and their content		
<b>Not Used</b>	<b>PID06</b>	<b>752</b>	<b>Surface/Layer/Position Code</b> <b>O ID 2/2</b>		
			Code indicating the product surface, layer or position that is being described		
<b>Not Used</b>	<b>PID07</b>	<b>822</b>	<b>Source Subqualifier</b> <b>O AN 1/15</b>		
			A reference that indicates the table or text maintained by the Source Qualifier		

	PID08	1073	Yes/No Condition or Response Code		O	ID 1/1
			Code indicating a Yes or No condition or response			
			Use only in conjunction with PID02 code HZ.			
			N	No		
				Use to indicate the line item is non-Resource Conservation and Recovery Act (RCRA).		
			Y	Yes		
				Use to indicate that the line item is RCRA.		
Not Used	PID09	819	Language Code		O	ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)			

<b>Segment:</b>	<b>MEA</b> Measurements
<b>Position:</b>	080
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	40
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.</li> <li>2 If MEA05 is present, then MEA04 is required.</li> <li>3 If MEA06 is present, then MEA04 is required.</li> <li>4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.</li> <li>5 Only one of MEA08 or MEA03 may be present.</li> </ol>
<b>Semantic Notes:</b>	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
<b>Notes:</b>	<i>Use this 2/MEA/080 segment in 2/HL/010 manifest line item loops to identify optional test results.</i>

## Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		BT Batch Limits	
		Limits set on test results from all product made for one unit or period of production	
		<i>Use to indicate that it is estimated waste as reported on a TSDF Notification that is reported in MEA03.</i>	
		TR Test Results	
		Indicates that the data to follow are the results test measurements	
Must Use	MEA02	738 Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		1F Radio Frequency	
		A1 Acids	
		A value, normally shown as a percent of the total, showing the content of all acidic structures contained in a solution of a known product	
		<i>Use to indicate a value, normally shown as a percent of the total, showing the content of all acidic structures contained in a solution of a known product.</i>	

			BUD	Bulk Density		
			GR	Gravity		
				<i>Use to indicate specific gravity</i>		
			PSA	Percent Solution Actual		
				<i>Use to indicate percentage.</i>		
			VAD	Vapor Density		
<b>Must Use</b>	<b>MEA03</b>	<b>739</b>	<b>Measurement Value</b>		<b>X</b>	<b>R 1/20</b>
			The value of the measurement			
<b>Must Use</b>	<b>MEA04</b>	<b>C001</b>	<b>Composite Unit of Measure</b>		<b>X</b>	
			To identify a composite unit of measure (See Figures Appendix for examples of use)			
<b>Must Use</b>	<b>C00101</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>		<b>M</b>	<b>ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			<i>Use any code other than ZZ, but the following are preferred.</i>			
			<i>26 Actual Tons</i>			
			<i>CC Cubic Centimeter</i>			
			<i>CR Cubic Meter</i>			
			<i>CY Cubic Yard</i>			
			<i>FP Pounds Per Sq. Ft.</i>			
			<i>GA Gallon</i>			
			<i>KG Kilogram</i>			
			<i>KS 1000 Per Square Inch</i>			
			<i>LA Pounds Per Cubic Inch</i>			
			<i>LT Liter</i>			
			<i>N6 Megahertz</i>			
			<i>P1 Percent</i>			
			<i>PS Pounds per Sq. Inch</i>			
			Refer to 003060 Data Element Dictionary for acceptable code values.			
<b>Not Used</b>	<b>C00102</b>	<b>1018</b>	<b>Exponent</b>		<b>O</b>	<b>R 1/15</b>
			Power to which a unit is raised			
<b>Not Used</b>	<b>C00103</b>	<b>649</b>	<b>Multiplier</b>		<b>O</b>	<b>R 1/10</b>
			Value to be used as a multiplier to obtain a new value			
<b>Not Used</b>	<b>C00104</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>		<b>O</b>	<b>ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
<b>Not Used</b>	<b>C00105</b>	<b>1018</b>	<b>Exponent</b>		<b>O</b>	<b>R 1/15</b>
			Power to which a unit is raised			
<b>Not Used</b>	<b>C00106</b>	<b>649</b>	<b>Multiplier</b>		<b>O</b>	<b>R 1/10</b>
			Value to be used as a multiplier to obtain a new value			
<b>Not Used</b>	<b>C00107</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>		<b>O</b>	<b>ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner			

			in which a measurement has been taken		
Not Used	C00108	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00109	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	<b>Unit or Basis for Measurement Code</b>	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	<b>Exponent</b>	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	<b>Multiplier</b>	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	MEA05	740	<b>Range Minimum</b>	X	R 1/20
			The value specifying the minimum of the measurement range		
Not Used	MEA06	741	<b>Range Maximum</b>	X	R 1/20
			The value specifying the maximum of the measurement range		
Not Used	MEA07	935	<b>Measurement Significance Code</b>	O	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
Not Used	MEA08	936	<b>Measurement Attribute Code</b>	X	ID 2/2
			Code used to express an attribute response when a numeric measurement value cannot be determined		
Not Used	MEA09	752	<b>Surface/Layer/Position Code</b>	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
Not Used	MEA10	1373	<b>Measurement Method or Device</b>	O	ID 2/4
			The method or device used to record the measurement		

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:**

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

**Semantic Notes:****Comments:****Notes:**

1. Use this 2/TD1/110 segment in 2/HL/010 manifest line item loops to identify container types and quantities and total weight/volume of the line item.
2. Use this segment for both hazardous and non-hazardous commodities. For hazardous commodities repeat the count of the number of containers in 2/LH1/152.
3. Use in Foreign Waste Shipment Summary to identify the quantity by weight or volume.
4. The shipment quantity must be expressed either in weight (use TD106-8) or volume (use TD109-10) but not both.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	
	<u>Des.</u>	<u>Element</u>	<u>Name</u>
Must Use	TD101	103	Packaging Code
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material
			<i>1. Must use in manifests to identify the types of containers.</i>
			<i>2. Typically use a code from part 1 to identify the type of container with a code from part 2 to identify the material (e.g., DRM58 would be a metal drum). However, part 1 codes BRG, TKR, TKT, TNK, and VEH do not use a part 2 code. See the Shipment Container Conversion Table for more information regarding converting X12 codes to UHWM container types.</i>
			BAG                      Bag
			BOX                     Box
			BRG                    Barge
			CYL                    Cylinder

			DRM	Drum		
			TKR	Tank Car		
			TKT	Tank Truck		
			TNK	Tank		
				<i>Use to indicate a portable tank.</i>		
			VEH	Vehicles		
				<i>Use to indicate a dump truck.</i>		
			07	Burlap		
			13	Cloth		
			31	Fibre		
			37	Fiberboard		
			58	Metal		
			79	Plastic		
			94	Wood		
	<b>TD102</b>	<b>80</b>	<b>Lading Quantity</b>		<b>X</b>	<b>N0 1/7</b>
			Number of units (pieces) of the lading commodity			
			<i>Must use in manifests to identify the number of container(s).</i>			
<b>Not Used</b>	<b>TD103</b>	<b>23</b>	<b>Commodity Code Qualifier</b>		<b>O</b>	<b>ID 1/1</b>
			Code identifying the commodity coding system used for Commodity Code			
<b>Not Used</b>	<b>TD104</b>	<b>22</b>	<b>Commodity Code</b>		<b>X</b>	<b>AN 1/30</b>
			Code describing a commodity or group of commodities			
<b>Not Used</b>	<b>TD105</b>	<b>79</b>	<b>Lading Description</b>		<b>O</b>	<b>AN 1/50</b>
			Description of an item as required for rating and billing purposes			
	<b>TD106</b>	<b>187</b>	<b>Weight Qualifier</b>		<b>O</b>	<b>ID 1/2</b>
			Code defining the type of weight			
			A	Consolidated Weight		
			DR	Drained Weight		
			N	Actual Net Weight		
	<b>TD107</b>	<b>81</b>	<b>Weight</b>		<b>X</b>	<b>R 1/10</b>
			Numeric value of weight			
			<i>Use to identify the total quantity in weight of the line item.</i>			
	<b>TD108</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>		<b>X</b>	<b>ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			<i>Use to identify the unit measure of weight.</i>			
			26	Actual Tons		
			KG	Kilogram		
			LB	Pound		
			MP	Metric Ton		
	<b>TD109</b>	<b>183</b>	<b>Volume</b>		<b>X</b>	<b>R 1/8</b>

Value of volumetric measure

*Use to identify the total quantity of volume for the line item.*

**TD110      355      Unit or Basis for Measurement Code      X      ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

*Use to identify the unit of measure for volume.*

CO	Cubic Meters (Net)
CY	Cubic Yard
GA	Gallon
LT	Liter



<b>Segment:</b>	<b>TD4</b> Carrier Details (Special Handling, or Hazardous Materials, or Both)
<b>Position:</b>	140
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	5
<b>Purpose:</b>	To specify transportation special handling requirements, or hazardous materials information, or both
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of TD401 TD402 or TD404 is required.</li> <li>2 If TD402 is present, then TD403 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<ol style="list-style-type: none"> <li>1. Use this 2/TD4/140 segment in 2/HL/010 manifest line item loops to identify that the line item is carried in a labpack.</li> <li>2. Also use it in the 2/HL/010 shipment handler loop to identify split pickups and/or deliveries.</li> </ol>

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	TD401	152	Special Handling Code	X ID 2/3
			Code specifying special transportation handling instructions	
			SCC	Special Containers
				The additional service charge or order for a transportation carrier to use specially constructed containers for oversized or fragile items as part of a household goods shipment
				<i>Use to indicate a labpack.</i>
			SDL	Split Delivery
				<i>Use only in the 2/HL/010 shipment handler loop to indicate that the waste is to be delivered to more than one TSDF.</i>
			SF	Split Pickup
				<i>Use only in the 2/HL/010 shipment handler loop to indicate that the waste was received from more than one location.</i>
Not Used	TD402	208	Hazardous Material Code Qualifier	X ID 1/1
			Code which qualifies the Hazardous Material Class Code (209)	
Not Used	TD403	209	Hazardous Material Class Code	X AN 1/4
			Code specifying the kind of hazard for a material	

856W - Ship Notice/Manifest (Hazardous Waste Manifest)

<b>Not Used</b>	<b>TD404</b>	<b>352</b>	<b>Description</b> A free-form description to clarify the related data elements and their content	<b>X</b>	<b>AN 1/80</b>
<b>Not Used</b>	<b>TD405</b>	<b>1073</b>	<b>Yes/No Condition or Response Code</b> Code indicating a Yes or No condition or response	<b>O</b>	<b>ID 1/1</b>

<b>Segment:</b>	<b>REF</b> Reference Identification
<b>Position:</b>	150
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<p><i>1. Use this 2/REF/150 segment in the 2/HL/010 shipment handler loop to identify the state manifest number.</i></p> <p><i>2. Also Use this segment in DRMS shipments, in 2/HL/010 line item loops to identify the unique defense turn-in document (DTID) number when there is only a single DTID associated with the manifest line item AND the DTID quantity equals the line item quantity. When there are multiple DTIDs associated with a single manifest line item and/or the DTID quantity(s) are less than the line item quantity, use the 2/CLD/170 loop to identify the DTID(s) and the associated quantity.</i></p> <p><i>3. Use in Foreign Waste Shipment Summary line item loops to identify the EPA manifest number associated with the waste line items.</i></p>

## Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
Code qualifying the Reference Identification				
		MA	Ship Notice/Manifest Number	
			<i>Use, if applicable, to indicate the state manifest number. Use in both Manifest and Foreign Waste Summary 2/HL/010 line item loops</i>	
		MK	Manifest Key Number	
			<i>Must use only in Foreign Waste Shipment Summaries to indicate the EPA generator/manifest number applicable to the waste line item.</i>	
		W1	Defense Turn-In Document Number	
			Identifies material submitted for reutilization and marketing	
			<i>Use in DRMS shipments to indicate the DTID.</i>	

<b>Must Use</b>	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>
			A free-form description to clarify the related data elements and their content		
<b>Not Used</b>	<b>REF04</b>	<b>C040</b>	<b>Reference Identifier</b>	<b>O</b>	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
<b>Not Used</b>	<b>C04001</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>M</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04002</b>	<b>127</b>	<b>Reference Identification</b>	<b>M</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04003</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04004</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04005</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04006</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

<b>Segment:</b>	<b>LH1</b>	<b>Hazardous Identification Information</b>
<b>Position:</b>	152	
<b>Loop:</b>	LH1	Optional
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify the hazardous commodity identification reference number and quantity	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>		
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.</li> <li>2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.</li> <li>3 In LH109, a value of "R" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations and the words "- residue" following all placards associated with this description.</li> </ol>	
<b>Notes:</b>	<i>Use this 2/LH1/152 loop in 2/HL/010 manifest line item loops to identify number of containers, hazardous codes and packaging groups. The repeat of the number of containers in 2/TD1/110 is used to meet X12 syntax requirements for entry into this LH1 loop.</i>	

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	LH101	355	<b>Unit or Basis for Measurement Code</b>	<b>M ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			EA                      Each	
			<i>Use to indicate the number of containers of hazardous material.</i>	
Must Use	LH102	80	<b>Lading Quantity</b>	<b>M N0 1/7</b>
			Number of units (pieces) of the lading commodity	
	LH103	277	<b>UN/NA Identification Code</b>	<b>O ID 6/6</b>
			Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
			<i>Use to identify UN hazardous identification number.</i>	
Not Used	LH104	200	<b>Hazardous Materials Page</b>	<b>O AN 1/6</b>
			The United Nations page number as required for the international transport of hazardous materials	
Not Used	LH105	22	<b>Commodity Code</b>	<b>O AN 1/30</b>
			Code describing a commodity or group of commodities	
Not Used	LH106	355	<b>Unit or Basis for Measurement Code</b>	<b>O ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner	

			in which a measurement has been taken		
Not Used	LH107	380	<b>Quantity</b>	O	R 1/15
			Numeric value of quantity		
Not Used	LH108	595	<b>Compartment ID Code</b>	O	ID 1/1
			Code identifying the compartment in a compartmentalized tank car		
Not Used	LH109	665	<b>Residue Indicator Code</b>	O	ID 1/1
			Code indicating that the shipment is not a loaded movement but contains a residue from a prior movement		
	LH110	254	<b>Packing Group Code</b>	O	ID 1/3
			Code indicating degree of danger in terms of Roman number I, II or III		
			<i>Use to identify packaging group.</i>		
Not Used	LH111	1375	<b>Interim Hazardous Material Regulatory Number</b>	O	AN 1/5
			Identifies the current regulatory version number used for hazardous materials shipments		

**Segment: LH2 Hazardous Classification Information****Position:** 153**Loop:** LH1 Optional**Level:** Detail**Usage:** Optional**Max Use:** 4**Purpose:** To specify the hazardous classification, placard notation, and endorsement information**Syntax Notes:** 1 If either LH206 or LH207 is present, then the other is required.**Semantic Notes:** 1 LH206 and LH207 indicate the flashpoint temperature.**Comments:**

**Notes:** 1. Use this 2/LH2/153 segment in 2/HL/010 in manifest line item loops to identify hazardous classification, reportable quantity codes and flash point temperatures.

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH201	215	<b>Hazardous Classification</b>	O ID 1/30
		The hazardous classification corresponding to the shipping name of the hazardous commodity	
LH202	983	<b>Hazardous Class Qualifier</b>	O ID 1/1
		Code qualifying hazardous class	
		P Primary	
		S Secondary	
Not Used	LH203	218 <b>Hazardous Placard Notation</b>	O ID 14/40
		The placard notation corresponding to the hazard class of the hazardous commodity	
Not Used	LH204	222 <b>Hazardous Endorsement</b>	O ID 4/25
		The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	
	LH205	759 <b>Reportable Quantity Code</b>	O ID 2/2
		Code to identify presence of hazardous substance	
		RQ Reportable Quantity	
	LH206	355 <b>Unit or Basis for Measurement Code</b>	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CE Centigrade, Celsius	
		FA Fahrenheit	
	LH207	408 <b>Temperature</b>	X R 1/4
		Temperature	

**Segment:** **LH3** Hazardous Material Shipping Name  
**Position:** 154  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify the hazardous material shipping name and additional descriptive requirements

**Syntax Notes:** 1 If either LH301 or LH302 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** *Must use this 2/LH3/154 segment in 2/HL/010 manifest line item loops to indicate the proper shipping name of the line item.*

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH301	224	Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
		<i>Must use to identify the proper shipping name.</i>	
LH302	984	Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
Not Used	LH303	N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	



**Segment:** **LFH** Freeform Hazardous Material Information  
**Position:** 155  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** *Use this 2/LFH/155 segment in 2/HL/010 manifest line item loops to provide additional hazardous material information not provided in other segments.*

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	LFH01	808	<b>Hazardous Material Shipment Information Qualifier</b>	<b>M ID 3/3</b>
			Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			D13 "DOT - 113, Do Not Bump or Cut Off Car While in Motion" Declaration	
			DWW "Dangerous When Wet" Declaration	
			HOT Identifies Products in a Heated Molten State	
			HZC Hazardous Substance Constituents	
			INH Inhalation Hazard	
			LQY "Limited Quantity" Declaration	
			MOS Maximum Operating Speed	
			PIH "Poison - Inhalation Hazard" Declaration	
			<i>When used, must indicate the Hazard Zone Class in LFH04.</i>	
			POI "Poison" Declaration	
			RAM Radioactive Material Data	
			TEC Technical or Chemical Group Name	
			TNM Trade Name	
Must Use	LFH02	809	<b>Hazardous Material Shipment Information</b>	<b>M AN 1/25</b>
			Specific information required by law for hazardous material shipments	
	LFH03	809	<b>Hazardous Material Shipment Information</b>	<b>O AN 1/25</b>
			Specific information required by law for hazardous material shipments	

**LFH04      1023      Hazard Zone Code      O      ID 1/1**

Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone

***Must use in conjunction with LFH01 code PIH.***

A	Hazard Zone A
B	Hazard Zone B
C	Hazard Zone C
D	Hazard Zone D

**Segment:** **LEP** EPA Required Data  
**Position:** 156  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 3  
**Purpose:** To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

**Syntax Notes:****Semantic Notes:****Comments:**

**Notes:** *Must use this 2/LEP/156 segment in 2/HL/010 in manifest and Foreign Waste Shipment Summary line item loops to identify the federal waste code.*

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>		
<b>LEP01</b>	<b>806</b>	<b>EPA Waste Stream Number Code</b>	<b>O ID 4/4</b>
		Waste stream number applicable to the movement of hazardous waste as determined by government regulations	
		<i>Use to identify the Waste No.</i>	
<b>Not Used</b>	<b>LEP02</b>	<b>807</b>	<b>Waste Characteristics Code</b>
			<b>O ID 14/16</b>
		Waste characteristics as defined by regulatory requirements	

<b>Segment:</b>	<b>CLD Load Detail</b>
<b>Position:</b>	170
<b>Loop:</b>	CLD Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the number of material loads shipped
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	1 CLD05 is used to dimension the value given in CLD04.
<b>Comments:</b>	1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.
<b>Notes:</b>	<p><b>1. Use this 2/CLD/170 loop in DRMS shipments in 2/HL/010 line item loops to identify multiple DTIDs and their associated quantities when more than one DTID is included within a single manifest line item.</b></p> <p><b>2. Also must use this loop to identify a DTID and its associated quantity when that quantity is less than the total line item quantity.</b></p> <p><b>For example, if a tank car containing a 1,000 gallons of waste moved from an interim to a final TSDF but only 300 gallons of that waste is being disposed for the transaction set recipient, then map as follows: use the 2/TD1/110 to report the 1,000 gallons and use this 2/CLD/170 loop to identify the 300 gallons and the DTID.</b></p> <p><b>If all 1,000 gallons was processed for the recipient use the 2/TD1/110 to report the quantity and the 2/REF/150 to identify the single DTID, and do not use this CLD loop.</b></p>

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CLD01	622	Number of Loads	M N0 1/5
			Number of customer-defined loads shipped by the supplier	
			<b><i>Cite 0 to meet X12 syntax requirements. This data will not be processed by the receiving application.</i></b>	
Must Use	CLD02	382	Number of Units Shipped	M R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
			<b><i>Use to identify the number of containers associated with the DTID.</i></b>	
Not Used	CLD03	103	Packaging Code	O AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	
Must Use	CLD04	357	Size	O R 1/8
			Size of supplier units in pack	
			<b><i>Use to identify the weight/volume associated with the DTID.</i></b>	

<b>Must Use</b>	<b>CLD05</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>O ID 2/2</b>
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			26 Actual Tons	
			CO Cubic Meters (Net)	
			CY Cubic Yard	
			GA Gallon	
			KG Kilogram	
			LB Pound	
			LT Liter	
			MP Metric Ton	

<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	180
<b>Loop:</b>	CLD Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	200
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<i>Must use one and only one repetition with each iteration of the 2/CLD/170 segment.</i>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification W1 Defense Turn-In Document Number Identifies material submitted for reutilization and marketing	M ID 2/3
Must Use	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	C04005	128	<b>Reference Identification Qualifier</b>	X ID 2/3

			Code qualifying the Reference Identification	
<b>Not Used</b>	<b>C04006</b>	<b>127</b>	<b>Reference Identification</b>	<b>X AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

**Segment: DTM Date/Time Reference****Position:** 200**Loop:** HL Mandatory**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM06 is required.
  - 2 If either DTM06 or DTM07 is present, then the other is required.

**Semantic Notes:****Comments:**

- Notes:**
1. *Must use one occurrence of this 2/DTM/200 segment in the 2/HL/010 shipment handler loop to identify the estimated or actual shipment/manifest date.*
  2. *Also must use one occurrence of this segment in each 2/HL/010 certification loop to specify the date of certification/receipt by the generator, transporter(s), and TSDF(s).*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
<b>Must Use</b>	<b>DTM01</b>	<b>374 Date/Time Qualifier</b>	<b>M ID 3/3</b>
		Code specifying type of date or time, or both date and time	
		011 Shipped	
		<i>Use to indicate the date the waste left the generator (BSN06 is code NQ) or when the waste left the interim TSDF site (BSN06 is code TS).</i>	
		017 Estimated Delivery	
		<i>Use to indicate an estimated pick-up date when BSN06 is code P1.</i>	
		458 Certification	
		Date of a document attesting to a fact	
		<i>Use to indicate the date of certification.</i>	
<b>Must Use</b>	<b>DTM02</b>	<b>373 Date</b>	<b>X DT 6/6</b>
		Date (YYMMDD)	
<b>Not Used</b>	<b>DTM03</b>	<b>337 Time</b>	<b>X TM 4/8</b>
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
<b>Not Used</b>	<b>DTM04</b>	<b>623 Time Code</b>	<b>O ID 2/2</b>
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an	



indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

	<b>DTM05</b>	<b>624</b>	<b>Century</b>	<b>O</b>	<b>N0 2/2</b>
			The first two characters in the designation of the year (CCYY)		
<b>Not Used</b>	<b>DTM06</b>	<b>1250</b>	<b>Date Time Period Format Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code indicating the date format, time format, or date and time format		
<b>Not Used</b>	<b>DTM07</b>	<b>1251</b>	<b>Date Time Period</b>	<b>X</b>	<b>AN 1/35</b>
			Expression of a date, a time, or range of dates, times or dates and times		

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	220
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>
<b>Notes:</b>	<ol style="list-style-type: none"> <li>1. <i>Use multiple iterations of this 2/N1/220 loop as needed in the 2/HL/010 shipment handler loop to identify organizations and points of contact for the Generator, Transporters, TSDFs, and other associated organizations.</i></li> <li>2. <i>Must use one and only one iteration of this 2/N1/220 loop in each 2/HL/010 certification loop to identify the organization, facility identification number, and the name of the individuals providing certification.</i></li> <li>3. <i>In the shipment handler loop, if only one carrier transports the waste from the ship-from location to the TSDF, must use N101 code OC. If two carriers are used, must use codes OC and DC. If three or more transporters participate, must use codes OC and DC and additionally, must use one or more iterations of code CA to indicate the intermediate carriers. Use the same pattern in certification loops, however, use only one 2/N1/220 loop per each certification loop iteration.</i></li> <li>4. <i>If ALL the line items on the manifest are associated with the same ship-from organization identify the organization in the shipment handler loop. If the ship-from organization varies by line item, then identify the location in EACH line item loop. This also applies to ship-to organizations.</i></li> </ol>

## Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N101	98 Entity Identifier Code	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

2F

State

*Use in shipment handler loops as needed to identify a state environmental agency. Must use when notifying a state environmental agency of failure to receive certification/confirmation of receipt of a hazardous waste shipment. Use only in*

	<i>conjunction when 1/BSN07/020 = A95.</i>
	<i>Also Use in the Foreign Waste Shipment Summary to indicate the state receiving the report.</i>
C4	Contract Administration Office Established at either a contractor facility or in a geographic area, and responsible for administering on behalf of the buying activities that assigned contracts for administration and all contracts awarded to either the specific contractor or all contractors in the geographic area <i>For U.S. Government shipments, must use in the shipment handler loop to indicate the Government office administering the disposal effort.</i>
CA	Carrier <i>Use in the shipment handler and certification loops only if more than two carriers are used. Use only to identify intermediate carriers - not the origin carrier or the destination carriers.</i> <i>In shipment handler loops use multiple iterations as needed to identify carriers 3, 4, etc.</i> <i>In certification loops use only one iteration of code CA (use another 2/HL/010 loop for each additional carrier).</i>
DC	Destination Carrier <i>Use in the shipment handler and certification loops to indicate a second carrier that delivers the waste to the Designated Facility. Must use once and only once if more than one carrier is used.</i>
GY	Treatment Facility <i>Use in the shipment handler and certification loops to indicate the shipping and/or receiving TSDF(s).</i> <i>Also must use in the Foreign Waste Shipment Summary shipment handler loop to indicate the receiving TSDF.</i>
IC	Intermediate Consignee <i>Use in the shipment handler and certification loops to indicate delivery to a temporary (intermediate) storage facility (not a TSDF).</i>
IM	Importer <i>Use in the shipment handler loop to indicate the importer of the waste.</i>
OC	Origin Carrier <i>Must use once in the shipment handler and</i>

			<i>certification loops to indicate Transporter #1 information.</i>	
		PK	Party to Receive Copy <i>Use multiple repetitions as needed in the shipment handler loop to indicate additional organization(s) to receive copies of the transaction set.</i>	
		PW	Pick Up Address <i>Use to indicate the pick-up location. Use only when different from code SF. Do not use in conjunction with code IC. Use in the shipment handler loop when there is a single pick-up location for ALL line items on the manifest. Use in ALL line item loops when there is more than one pick-up location.</i>	
		SF	Ship From <i>1. Must use in the manifest shipment handler and certification loops to identify the Generator. Use in the shipment handler loop when there is a single generator/pick-up location for ALL line items on the manifest. Use in ALL line item loops when there is more than one generator/pick-up location.  2. Must use in the Foreign Waste Summary Report Shipment Handler loop to indicate the generator of the waste located in the foreign country.</i>	
		SJ	Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered <i>Must use in DRMS shipments in the shipment handler loop to indicate the organization coordinating the disposal services.</i>	
N102	93	Name		X AN 1/35
		Free-form name	<i>Use to identify the organization only when coded means are unavailable or insufficient.</i>	
N103	66	Identification Code Qualifier		X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		1	D-U-N-S Number, Dun & Bradstreet	
		9	D-U-N-S+4, D-U-N-S Number with Four Character	

			Suffix		
		10	Department of Defense Activity Address Code (DODAAC)		
		33	Commercial and Government Entity (CAGE)		
		EP	U.S. Environmental Protection Agency (EPA)		
	<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>AN 2/20</b>
			Code identifying a party or other code		
<b>Not Used</b>	<b>N105</b>	<b>706</b>	<b>Entity Relationship Code</b>	<b>O</b>	<b>ID 2/2</b>
			Code describing entity relationship		
	<b>N106</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>O</b>	<b>ID 2/2</b>
			Code identifying an organizational entity, a physical location, or an individual		
		FR	Message From		
			<i>Use to indicate that the organization cited in N104 transmitted the transaction set.</i>		
		TO	Message To		
			<i>Use to indicate that the organization cited in N104 is to receive the transaction set.</i>		

<b>Segment:</b>	<b>N2 Additional Name Information</b>
<b>Position:</b>	230
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	2
<b>Purpose:</b>	To specify additional names or those longer than 35 characters in length
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Notes:</b>	<i>This segment is not necessary when the organization cited in N101 is described by a code in N103/N104. If needed, use to provide additional name information of the organization identified in N102.</i>

Data Element Summary				
	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Must Use	<b>N201</b>	<b>93</b>	<b>Name</b> Free-form name	<b>M</b> AN 1/35
	<b>N202</b>	<b>93</b>	<b>Name</b> Free-form name	<b>O</b> AN 1/35

**Segment:** **N3** **Address Information**  
**Position:** 240  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Notes:** *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104. If needed, use to provide street address information of the organization identified in N102.*

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	
Must Use	N301	166	Address Information	M AN 1/35
			Address information	
	N302	166	Address Information	O AN 1/35
			Address information	

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	250
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
<b>Notes:</b>	<i>This segment is not necessary when the entity cited in N101 is described by a code in N103/N104. If needed, use to provide geographical location information of the organization identified in N102.</i>

## Data Element Summary

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>N401</b>	<b>19 City Name</b> Free-form text for city name	<b>O AN 2/30</b>
<b>N402</b>	<b>156 State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	<b>O ID 2/2</b>
<b>N403</b>	<b>116 Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	<b>O ID 3/15</b>
<b>N404</b>	<b>26 Country Code</b> Code identifying the country	<b>O ID 2/3</b>
<b>N405</b>	<b>309 Location Qualifier</b> Code identifying type of location Refer to 003060 Data Element Dictionary for acceptable code values.	<b>X ID 1/2</b>
<b>N406</b>	<b>310 Location Identifier</b> Code which identifies a specific location	<b>O AN 1/30</b>



<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	260
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<ol style="list-style-type: none"> <li>1. Use this 2/REF/260 segment in the 2/HL/010 shipment handler loop to indicate the state identification numbers for the specified organization.</li> <li>2. Must use in each certification loop to provide the personal identification number (PIN) of the person certifying transfer.</li> </ol>

## Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128		<b>Reference Identification Qualifier</b>	<b>M ID 2/3</b>
				Code qualifying the Reference Identification	
			1J	Facility ID Number	
				<ol style="list-style-type: none"> <li>1. Must use in the 2/HL/010 shipment handler loop to indicate the state identification numbers for the carriers or facilities. Use in same loop iterations as N101 codes: OC, DC, CA, IC and GY.</li> <li>2. Must use in the 2/HL/010 Foreign Waste Summary shipment handler loop to indicate the receiving TSDF state identification number.</li> </ol>	
			4A	Personal Identification Number (PIN)	
				A number that uniquely identifies an individual	
				Use to indicate the certifier's PIN.	
Must Use	REF02	127		<b>Reference Identification</b>	<b>X AN 1/30</b>
				Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	REF03	352		<b>Description</b>	<b>X AN 1/80</b>
				A free-form description to clarify the related data elements and their content	
Not Used	REF04	C040		<b>Reference Identifier</b>	<b>O</b>
				To identify one or more reference numbers or identification numbers as	

			specified by the Reference Qualifier		
Not Used	C04001	128	<b>Reference Identification Qualifier</b>	M	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04002	127	<b>Reference Identification</b>	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
Not Used	C04003	128	<b>Reference Identification Qualifier</b>	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04004	127	<b>Reference Identification</b>	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
Not Used	C04005	128	<b>Reference Identification Qualifier</b>	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	<b>Reference Identification</b>	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

**Segment:** **PER** Administrative Communications Contact

**Position:** 270

**Loop:** N1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 3

**Purpose:** To identify a person or office to whom administrative communications should be directed

**Syntax Notes:**

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:****Comments:****Notes:**

*1. Use multiple repetitions of this 2/PER/270 segment as needed within each 2/N1/220 loop within the 2/HL/010 shipment handler loop to identify points of contact and communication numbers of the Generator, Transporters, TSDFs, and other organizations as needed.*

*2. Must use one repetition of this 2/PER/270 segment for each iteration of the 2/N1/220 loop within each 2/HL/010 certification loop to identify the name of the individual making the certification and communications numbers.*

*3. Use multiple repetitions as needed to identify a point(s) of contact and multiple communication numbers. When using multiple repetitions to identify different communications numbers for a single point of contact, repeat the name cited in PER02.*

**Data Element Summary**

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	PER01 366 Contact Function Code	M ID 2/2

Code identifying the major duty or responsibility of the person or group named

CE Certifier

*Must use in each 2/HL/010 certification loop to indicate the certifying individual within the organization specified in the corresponding N1 segment. Use in conjunction with N101 codes GY, IC, SF, OC, DC, and CA.*

EM Emergency Contact

*Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code (except PK) to indicate an emergency point of contact.*

HM Hazardous Material Contact

*Use in the 2/HL/010 shipment handler loop in*

				<p><i>conjunction with any N101 code (except PK) to indicate the hazardous material point-of-contact for the organization specified in the corresponding N1 segment.</i></p>
		IC	Information Contact	<p><i>Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code to indicate an individual point-of-contact within the organization specified in the corresponding N1 segment.</i></p>
	PER02	93	Name	O AN 1/35
			Free-form name	
			1. Must Use in Certification loops.	
			2. Provide the last name, first name, middle initial and rate/rank/title as required, of the individual(s). Include blank spaces between name components and periods after initials. Do not include NMN when a middle initial is not available.	
Must Use	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			1. Use to identify types of communications.	
			2. Must use one of codes TE or IT to identify the preferred method of communication. Use PER05/06 and PER07/08 to identify additional communications numbers. Use additional repetitions of the PER segment to identify more than three numbers.	
			3. Do not include blank spaces or dashes between numbers.	
		IT	International Telephone	
			Include country and city codes as needed.	
		TE	Telephone	
			Use to indicate the commercial telephone number. Include the area code and number. Must use this code or IT.	
Must Use	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01.	
			2. Do not include blank spaces or dashes between numbers.	
		AU	Defense Switched Network	
			Department of Defense telecommunications system	

			and successor of the Automatic Voice Network (AUTOVON)
		EM	Electronic Mail
		EX	Telephone Extension
			<i>When used, there must be a previous communication number citing either a national or international telephone number.</i>
		FX	Facsimile
		IT	International Telephone
			<i>Include country and city codes as needed.</i>
		TE	Telephone
			<i>Use to indicate the commercial telephone number. Include the area code and number.</i>
<b>PER06</b>	<b>364</b>	<b>Communication Number</b>	<b>X AN 1/80</b>
			Complete communications number including country or area code when applicable
<b>PER07</b>	<b>365</b>	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>
			Code identifying the type of communication number
			<i>1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01.</i>
			<i>2. Do not include blank spaces or dashes between numbers.</i>
		AU	Defense Switched Network
			Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)
		EM	Electronic Mail
		EX	Telephone Extension
			<i>When used, there must be a previous communication number citing either a national or international telephone number.</i>
		FX	Facsimile
		IT	International Telephone
			<i>Include country and city codes as needed.</i>
		TE	Telephone
			<i>Use to identify the commercial telephone number. Include the area code and number.</i>
<b>PER08</b>	<b>364</b>	<b>Communication Number</b>	<b>X AN 1/80</b>
			Complete communications number including country or area code when applicable
<b>PER09</b>	<b>443</b>	<b>Contact Inquiry Reference</b>	<b>O AN 1/20</b>
			Additional reference number or description to clarify a contact number

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:****Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		
	<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
<b>Must Use</b>	<b>SE01</b>	<b>96</b>	<b>Number of Included Segments</b>	<b>M N0 1/10</b>
			Total number of segments included in a transaction set including ST and SE segments	
<b>Must Use</b>	<b>SE02</b>	<b>329</b>	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i><b>This is the same number that appears in ST02.</b></i>	